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Campbell

A FIVE-YEAR FISH DISTRIBUTION AND MANAGEMENT PLAN
FOR THE
HAMILTON HATCHERY DISTRICT
MONTANA

Field Work By

Arthur M. Allen
Fish Culturist
State of Montana Fish and Game Department

Compiled By

DIVISION OF WILDLIFE
FOREST SERVICE
REGION ONE
UNITED STATES DEPARTMENT OF AGRICULTURE

Approved By
Elmer G. Phillips
Montana State Superintendent of Fisheries

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SCOPE OF PLAN

The area covered by this management plan is the Clark Fork of the Columbia River drainage between the mouth of Rock Creek and the mouth of Flathead River; the Blackfoot drainage from its mouth to and including the Clearwater drainage, and the Bitterroot River drainage.

OBJECTIVES

1. To correlate the efforts of the various Rod and Gun Clubs, Montana Fish and Game Department, Fish and Wildlife Service and the Forest Service to prevent duplication in planting streams and lakes, and to minimize the mixing of fish species within the drainages.
2. To evaluate streams and lakes from a fish production standpoint and thereby formulate a more logical stocking policy.
3. To stock the streams and lakes consistent with use and demand.
4. To produce large-size fish for the stocking of the major drainages.
5. To secure maximum fish production at minimum cost.
6. To assemble all existing data in one place for ready reference by all interested agencies.

FISHERIES MANAGEMENT POLICY

During June 1941, a cooperative arrangement was made between the Montana Fish and Game Commission, the Fish and Wildlife Service and the U. S. Forest Service whereby the state superintendent of fisheries would act as coordinator in all fish planting work in Montana. Areas of responsibility for all the hatcheries in the state were outlined, as shown on the map, page 1. The preparation of detailed management plans for the individual district was then inaugurated in order to put the fish planting activities in the state on a systematic basis. The purpose of these districts and management plans is to prevent the confusion and duplication of effort inherent in a system where no clear-cut lines of responsibility exist.

FISH MANAGEMENT FACTORS

FISH HATCHERY

The entire area will be served by the Hamilton (Daly) State Fish Hatchery, located at Hamilton, Montana. The total production of this hatchery unit will be planted in this fish management district.

DETRIMENTAL FACTORS

The use of water for irrigation is a serious detrimental factor in the Bitterroot drainage. All of the major tributaries are used heavily for irrigation, and many of them are entirely dry in their lower reaches

during the summer months. The loss of fish in the ditches and through the drying of the streams is a serious drain on the fish production. Industrial pollution from the mining operations at Butte prevents maximum fish production in the Clark Fork drainage.

TRASH FISH

Suckers and squawfish are found throughout the entire district. Bass and perch are present in a number of lakes in which they are considered detrimental.

FISHING PRESSURE

The fishing pressure is almost uniformly heavy in the main drainages. The pressure is probably greatest on the Blackfoot drainage, with the Bitterroot and Clark Fork drainages following in the order listed.

TABULAR DATA

In order that the tables may be more easily understood the following information is presented:

CONVERSION FACTORS

The following tables refer generally to number $1\frac{1}{2}$ fingerlings. To find the relative number of 1", 2", 3", 4" or 6" fish, multiply by the following conversion factors:

Size Factor	1 4	$1\frac{1}{2}$ 1	2 0.565	3 0.33	4 0.25	6 0.2
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ABBREVIATIONS

The following abbreviations have been used in the tables to indicate the various fish species:

Rb	Rainbow
Ct	Cutthroat or native
Eb	Eastern Brook
LL	Loch Leven
Gr	Grayling
Wf	Whitefish
SS	Silver Salmon
S	Suckers

Table 3a. Management data on streams recommended for planting in the Clark Fork Drainage between the mouth of Rock Creek and the mouth of the Flathead River.

Name of stream	Miles fishing water	Width in feet	Number tributaries	Temperature degrees Fahrenheit	Food condition	Amount of fishing	Species fish present	List barriers in stream or rearing pond possibilities
Clark Fork River	140	300	43		Good	Heavy	Ct, Rb, Eb, LL, DV, S, Squaw, Bass	
Siegel Creek	6	4		"	Fair	None	Ct	Beaver dams Rearing pond to be planted
Flat Creek	7	6			Ned.	Heavy	Ct	Irrigation on lower end
Mill Creek	10	8	5		Good	Med.	Ct	15' falls 8 mi. from mouth. closed after Jul. 6
Grant Creek	13	12	1		"	None	Ct	Used for irrigation
Schwartz Creek	7	15	2		"	"	Ct	Used for irrigation
Greenough Creek	6	10	1		Med.	Light	Ct, Rb	Dry in places from mouth to upper end for about 5 miles
Deer Creek	5	6			"	Heavy	Ct, Rb	Possible rearing pond site
Petty Creek	12	10	9		Good	Light	Ct	Beaver dams
W.Fk.Petty Creek	6	4			"	Med.	Ct, Rb, DV	"
Fish Creek	13	30	2		"	None	Ct, Rb, DV	Many beaver dams
S.Fk.Fish Creek	15	15	7		"	Light	Ct	Beaver dams
Burdette Creek	6	6			"	Heavy	Ct, Rb, Eb, DV	"
Cache Creek	9	10	2		"	"	Ct, Rb, Eb, DV	"
Trout Creek	15	25	6		"	None	None	30' falls 1 mi. from mouth
S.Fk.Trout Creek	4	8	2		"	Med.	Ct, Rb, Eb	
N.Fk.Trout Creek	3	6	2		"	None	Ct, Rb, Eb	
Oregon Gulch	12	12			Good	Med.	Ct, Rb, Eb	
Lost Creek	7	4			"	None	Ct	
Thompson Creek	7	4			"	Light	Ct	
Dry Creek	12	8	4		"	Heavy	Ct, Rb, Eb	Dry lower mile
Cold Creek	6	4	1		V.	Light	Ct	Beaver dams

Table 3a. Management data on streams recommended for planting in the Clark Fork Drainage between the mouth of Rock Creek and the mouth of the Flathead River.

Sheet 2 of 2

Name of stream	Miles fishing	Width in water	Number tributaries	Temperature degrees Fahrenheit	Food condition	Amount of fishing	Species fish present	List barriers in stream or rearing pond possibilities
St. Regis River	35	15	20		Fair	V. Heavy	Ct, Rb, DV, Eb, S, Wf, Squaw	Beaver dams
S.Fk. Little Joe Creek	9	8	3		Good		Ct, DV	Beaver dams
N.Fk. " " " N.Fk.	10	7			"		Ct, DV	" "
Big Creek	3	12	3		"		Eb, Ct, Rb, DV	
E.Fk. Big Creek	5	6	1		"		Ct, DV, Eb	
Mid.Fk. Big Creek	5	8	1		"		Ct, DV, Eb	" "
W.Fk. Big Creek	5	8			"		Ct, DV, Eb	" "
Gilt Edge Creek	3	6			"		Ct, DV, Eb	" "
Silver Creek	5	6	1		"		Ct, DV, Eb	" "
Packer Creek	5	8	2		"		Ct, DV, Eb	
W.Fk. Packer Creek	3	6			"		Ct	
E.Fk. Packer Cr.	2	5			"		Ct	
Twelve Mile Creek	11	12	4		"		Ct, Rb, DV	
Rock Creek	5	5			"		Ct	
Flat Rock Creek	5	6	2		"		Ct	
E.Fk. Twelve Mile Creek	3	5	1		"		Ct, Eb	" "
Tamarac Creek	7	8	3		Heavy			

Table 5b. Management data on streams running through and in the Blackfoot River drainage from its mouth to and including the Clearwater Drainage

Name of stream	Miles fishing water	Width in feet	Number tributaries	Temperature degrees Fahrenheit	Flood condition	Amount of fishing	Species fish present	List barriers in stream or rearing pond possibilities
Blackfoot River	36	120	10		Good	Heavy	Ct, Rb, DV, S, Squaw, Wf, Bass, Perch Ct, DV	Dam at lower end at Bonner Falls 12 mi. from mouth Chain of lakes on channel, no barriers
Gold Creek	17	30	2		"	"		
W.Fk. Gold Creek	7	12			"	Light	Ct, DV	
Clearwater River	35	30	22		"	Heavy	Ct, Rb, Wf, DV, Squaw, S, Bass, Perch Ct, DV	
Placid Creek	11	15	6		"	None	Ct, Rb, Wf, S, Squaw, DV	Closed to fishing
Boles Creek	11	10			"	Med.	Ct, Rb, Wf, DV, Squaw, S	
Deer Creek	8	15	2		"	"		
W.Fk. Clearwater Riv.	11	20	2		"	None	Ct, Rb, DV	
Marshall Creek	5	10			"	"	Ct, Rb, DV	Closed to fishing
Uhler Creek	4	8			"	Med.	S, Squaw	
Colt Creek	5	8			"	"	Ct, Rb, DV	
Richmond Creek	4	8			"	"	Ct, Rb, DV	
Findell Creek	3	6			"	"	Ct, Rb, DV	
Morrell Creek	13	18			"	"	Ct, Rb, DV	
Trail Creek	7	10	2		"	Heavy	Ct, Rb, DV	Falls 10 mi. above mouth
Blind Canyon Creek	7	8			"	None	Ct, Rb, DV	Closed to fishing
						Light	Ct, Rb, DV	

Table 3c. Management data on streams recommended
for planting in the Bitterroot River Drainage

Name of stream	Miles fishing water	Width in feet	Number tributaries	Temperature degrees Fahrenheit	Food condition	Amount of fishing	Species fish present	List barriers in stream or rearing pond possibilities	Many irrigation diversions
Bitterroot River	73	175	53		Med.	Heavy	Ct., Eb, Eb, W, Ff, S Squaw Ct		
Miller Creek	14	10	5		Good	"	None	Ct.	
Plant Creek	3	5	3		Med.	Heavy	Ct.		
Eightmile Creek	14	5	3		"	"	Ct.		
Threemile Creek	20	8	3		Poor	"	Ct.	"	
Ambrose Creek	7	5	1		Good	"	Rb, Ct	"	
Burnt Fork	30	20	11		Poor	Light	Ct.	"	
Flat Rock Creek	4	4	1		Med.	Med.	Ct.		
Gold Creek	6	4			"	Heavy	Ct., Rb, Eb	"	
Willow Creek	20	10	7		Good	Med.	Ct., Rb, Eb	"	
Gird Creek	16	6	1		Med.	Heavy	Ct., Rb, Eb	"	
Skalkaho Creek	25	20	2		"	None	Ct., DV	"	
Railroad Creek	5	5			"	"	Ct., DV	"	
Hog Trough Creek	5	5			"	"	Ct., DV	"	
Weasel Creek	4	5			"	"	Ct., DV	"	
Sleeping Child Cr.	26	20	4		Good	Heavy	Ct., Rb, Eb DV	"	
S.Fk. "	"	9	10	1	"	Light	Ct., DV		
Rye Creek	17	8	3		"	Heavy	Ct., Rb, Eb		
E.Fk. Bitterroot Riv.	37	40	26		"		Ct., Rb, Eb W, Squaw, S		
Jameron Creek	11	6	2		"		Ct., Eb		
Bertie Lord Creek	6	8			"		Ct.		
Fartin Creek	11	8	1		Med.	Light			
Paint Creek	2	6			Good	Med.			
Loose Creek	10	12	4		"	Light			
					"	Heavy	Ct., Rb		

Sheet 1 of 4

Table 3c. Management data on streams recommended
for planting in the Bitterroot River Drainage

Name of stream	Miles fishing water	Width in feet	Number tributaries	Temperature degrees Fahrenheit	Food condition	Amount of fishing	Species fish present	List barriers in streams or rearing pond possibilities
Lick Creek	4	8		Good	Med.	Ct	Beaver dams	
Clifford Creek	4	6	1	"	Light	Ct		
Buck Creek	4	8	2	"	Med.	Ct		
Meadow Creek	10	8	1	"	"	Ct	"	"
Swift Creek	5	6	1	"	Light	Ct		
Camp Creek	9	8	6	"	Med.	EB, Ct		
Warm Springs Creek	11	15	9	"	Med.	Ct		
Viles Creek	5	8	3	"	Light	Ct		
Laird Creek	6	8	3	"	Med.	Ct		
W.Fk. Bitterroot Riv.	45	50	26	Good	Heavy	Ct, Rb, Eb, Wf, S, DV, Squaw Ct		
Piquet Creek	11	8	3	"	Light	Rb, Ct		
Little Boulder Cr.	5	4	2	V. Good	None	None	75' falls 14 mi. from mouth; many beaver dams	
Overwich Creek	19	30	10	Med.	"	EB, Ct, Rb	Many beaver dams	
Mine Creek	5	10	10	Good	"	EB, Ct, Rb	"	
Chandal Creek	4	10	10	Med.	"	Ct, Eb	"	
Salt Creek	4	10	10	Good	"	Ct, Eb	"	
Johnson Creek	5	10	10	"	"	Ct, Eb	"	
Sheep Creek	4	10	10	"	"	Ct, Eb	"	
Beaver Creek	5	15	15	"	Heavy	Ct, Eb	"	
Woods Creek	8	8	8	"	Light	Ct, Eb	"	
Deer Creek	14	15	15	"	None	Ct, Eb	"	
Chicken Creek	8	8	8	"	"	Ct, Eb	"	
Nezperce Creek	20	15	4	Med.	Light	Ct, Rb, Eb	"	
Sheephead Creek	8	20	20	Good	"	Ct	"	
Watchtower Creek	9	15	15	"	"	Ct	"	
Boulder Creek	11	15	15	Med.	Med.	Ct, Rb, Eb, DV	Falls 4 mi. from mouth	
Trapper Creek	18	15	1	"	Light	Ct, DV		

Table 3c. Management data on streams recommended for planting in the Bitterroot River Drainage

Sheet 3 of 4

Name of stream	Miles fishing water	Width in feet	Number tributaries	Temperature degrees Fahrenheit	Food condition	Amount of fishing	Species fish present	List barriers in streams or rearing pond possibilities
Chaffin Creek	10	10	1		Med. Good	Light Heavy	Ct, DV Eb, Ct, DV, Rb	Reservoirs on head of stream
Tin Cup Creek	17	25					Ct, DV Eb, Ct, DV, Rb	Reservoir on head of stream overstocked
Rock Creek	20	15	2		Med. Good	Light	Ct, Rb	Lower 4 mi. unfit for planting
Lick Creek	6	5			"	None	Ct	Lower 2 mi. used for irrigation
Lost Horse Creek	20	25	3		Heavy	Heavy	Ct, Rb	Large irrigation dam 5 mi. from mouth
Camas Creek	8	15				Med.	Ct, Rb, Eb	Beaver dams
Roaring Lion Creek	16	15				"	Ct, Rb	15' falls 7 mi. above mouth
Sawtooth Creek	18	15				"	Ct, Rb	Beaver dams 8 mi. from mouth;
Blodgett Creek	20	15	1		Good	"	Ct	sinks 7 mi. from mouth; stream raises below; lower 4 mi. used for irrigation; several falls
Mill Creek	19	10			Med.	"	Ct	Lower 5 mi. used for irrigation
Sheafman Creek	16	6			Poor	Heavy	Ct	Steep and rocky; lower 5 mi. used for irrigation
Fred Burr Creek	24	10			Good	Med.	Rb	Beaver dam 8 mi. from mouth
Bear Creek	30	15			Poor	Heavy	Eb, Ct, Rb	Falls 9 mi. from mouth
Gash Creek	10	5			"	"	Ct	Lower end used for irrigation
Sweathouse Creek	15	12			Poor	Med.	Ct	Lower end used for irrigation
Big Creek	16	20	3		Good	Heavy	Ct	" " "
S.Fk. Big Creek	6	8			"	Light	Ct	Falls 9 mi. from mouth
Kootenai Creek	17	15			Med.	Med.	Ct	Beaver dams
Bass Creek	12	12			"	Heavy	Rb, Ct, LL	Lower end used for irrigation; dam 2 mi. from mouth
N.Fk. Sweeney Creek	5	8			Poor	Light	Ct	Falls 8 mi. from mouth; dam 5 mi.
One Horse Creek	10	10			Med.	Heavy	Ct	
Iolo Creek	30	18	20		Good	V. "	Ct, Rb, Eb, DV, Wf, S, Squaw	Irrigation on lower end

Table 3c. Management data on streams recommended
for planting in the Bitterroot River Drainage

Name of stream	Miles fishing water	Width in feet	Number tributaries	Temperature degrees Fahrenheit	Food condition	Amount of fishing present	Species	List barriers in streams or rearing pond possibilities	Irrigation on lower end
Mill Creek	4	4			Good	None	Ct, Eb, Rb, DV		
E.Fk. Lolo Creek	9	10	2	"	"	Med.	Ct, DV		
Lost Park Creek	3	5	1	"	"	Light	Ct, DV		
W.Fk. Lolo Creek	6	7		"	"	Med.	Ct, DV		
Lee Creek	4	4		"	"	Med.	Ct, DV		
Granite Creek	8	7	1	"	"	Light	Ct, DV		
N.Fk. Granite Creek	3	6		"	"	Med.	Ct, DV		
Howard Creek	6	5	2	"	"	Light	Ct, DV		
Graves Creek	6	4		"	"	"	Ct, DV		
Bear Creek	6	4		"	"	None	Ct, DV		

Table 6a. Lakes in the Clark Fork River Drainage between the mouth of Rock Creek and the mouth of the Flathead River in which no planting is recommended.

Name of lake	Acreage	Species present	Reason for not planting				Sheet 1 of 2
			Too warm	Undesirable fish present	Too shallow	Needs investigation	
Beeskove Lake	8	None			x		Inaccessible
Heart Lake	8	"					Adequately stocked
Hamilton Lake	15	Ct					"
Lower Lake	12	Ct					"
Twin Lakes (2)	14	Ct					"
McKinley Lake	14	Rb					"
Roosevelt Lake	17	Rb					"
Carter Lake	8	Rb					"
Worden Lake	17	Rb					"
Worden Lake	10	None					Inaccessible
Sheridan Lake	10	Rb					Overstocked
Big Lake	38	Ct					"
Glacier Lake	20	Ct					"
Little Lake	18	Ct			x		
Saunders Lake	45	None			x		
Bull Lake	8	None			x		
W.Fk. Gold Lake	6	"			x		
Fly Lake	10	"			x		
Boulder Lake	100	Ct			x		
Surveyor Lake	30	Rb			x		
Schley Lake	40	Ct			x		
Cedar Log Lake	15	Ct			x		
Verdant Lake	15	Ct, Rb			x		
Lower Siamese Lake	50	Ct, Rb			x		
Spirit Lake	20	SS			x		
Straight Lake	10	None			x		
Crater Lake	20	Ct			x		
French Lake	8	Chum salmon			x		
Hidden Lake	8	None			x		

Table 6a. Lakes in the Clark Fork River Drainage between the mouth of Rock Creek and the mouth of the Flathead River in which no planting is recommended.

in which no planting is recommended.

Name of lake	Acreage	Species fish present	Reason for not planting	Sheet 2 of 2
Deep Cr. Lake	10	?	Too warm	
Lost Lake	6	Eb	Undesirable fish present	
Hidden Lake	6	Ct, Rb, Eb	Too shallow	
Diamond Lake	5	Eb	Inadequate food	
Newman Lake	2	None	Needs investigation	
Mary Lake	5	"	x	x
Clear Lake	4	Eb		
Gold Lake	1	?		
2 unnamed lakes, head of Deer Creek	4	None	x	x
Rudie Lake	7	Eb		
Crystal Lake	15	Rb		
Silver Lake	20	Eb		
Diamond Lake	2	?		
			" stocked Eb	" "
			" "	" "

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Table 6b. Lakes in the Blackfoot River Drainage from its mouth to and including the Clearwater Drainage in which no planting is recommended.

Name of lake	Acreage	Species fish present	Reason for not planting				Sheet 1 of 1
			Too warm	Undesirable fish present	Too shallow	Inadequate food	
Blanchard Lake	30	Ct, Rb, SS Perch, DV Bass, S Squaw	x				
Elbow Lake	40	Ct, Rb, S Perch, DV Squaw	x				
Salmon Lake	800	Ct, Rb, Wf S, Squaw Perch, DV Bass	x				
Spook Lake	10	None					
Tupper Lake	8	Rb					
Lake Dinah	15	Rb					
Rainy Lake	150	Ct, Rb, Wf Perch, DV Bass, S Squaw	x				
Clearwater Lake	35	Ct, DV					
Fish Lake	40	Ct					

Adequately stocked
from stream
Almost inaccessible
Private lake

Table 6c. Lakes in the Bitterroot River Drainage in which no planting is recommended.

Name of lake	Acreage	Species fish present	Reason for not planting	Sheet 1 of 2		
				Too warm	Undesirable fish present	Too shallow
Jerry Lake	2	None	x			
Fish Lake	4	Ct				
Legend Lake	2	Ct				
Spur Lake	2	Ct				
Snow Lake	2	Ct				
Shadow Lake	4	Ct				
Unnamed lake above Shadow Lake	3	None				
Ripple Lake	8	Ct				
Kelley Lake	4	None	x	x	x	x
Hidden Lake	3	Rb				
Hope Lake	15	?		x	x	x
Buck Lake	8	?		x	x	x
Carmine Lake	3	?		x	x	x
Capri Lake	5	?		x	x	x
Pass Lake	4	?		x	x	x
Slate Lake	6	None		x	x	x
Square Lake S.25, T.1 N, R.24W	5	"		x	x	x
Watchtower Lake S8, T1N, R23W	10	"		x	x	x
Lit. W.Fk. Lake S16, T1N, R23W	5	"		x	x	x
Soda Springs Lake S15, T1N, R23W	7	"		x	x	x
Little Boulder Lk. S31, T2N, R22W	2	Ct		x	x	x
Chaffin Lake	26	Ct				
Tin Cup Lake	128	Ct				
Lake Como	906	Ct, Rb, Bb Sockeye Peanouth				
		Adequately stocked Overstocked				
		Irrigation reservoir				

Table 6a. Lakes in the Bitterroot River Drainage in which no planting is recommended.

Name of lake	Acreage	Species fish present	Reason for not planting	Sheet 2 of 2				
			Too warm	Undesirable fish present	Too shallow	Inadequate food	Needs investigation	Other
Lit.Rock Cr.Lake	20	None					x	
Elk Lake	20	Ct					x	
Lake Capitan	15	None						
Unnamed lake above Lost Horse Lake	10	Rb						
Fish Lake	51	Rb						
Wolvemile Lake	10	None						
Emmille Lake	20	"						
amas Lakes (2)	20	Ct,Rb						
omo Lake	15	None						
ears Lake	10	"						
nith Lake	7	"						
vo Lakes (2)	30	"						
Mary Lake	5	"						
tarrot Creek Lakes	10	"						
Fk.Sweeney Lks.(4)	10	"						
Fk.Lakes	8							